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University of California College of Agriculture Agricultural Experiment Station Berkeley, California

SEASONAL LABOR NEEDS FOR CALIFORNIA CROPS

MERCED COUNTY

Progress Report No. 24

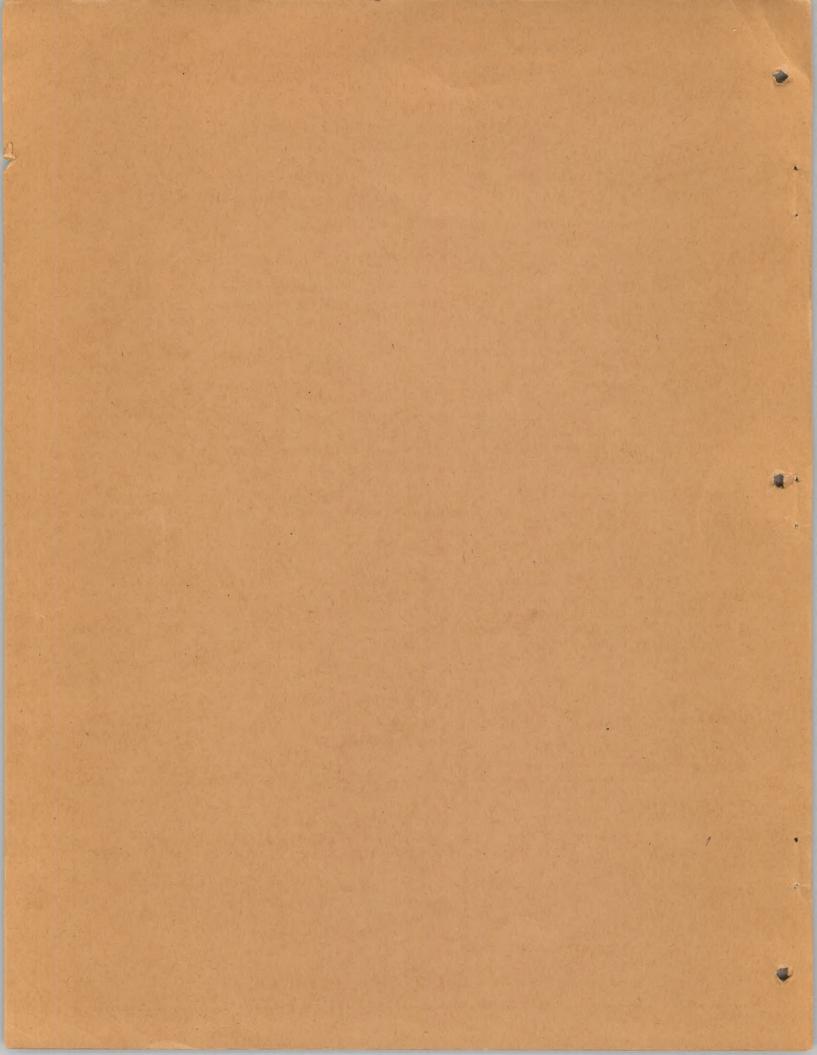
by

R. L. Adams

Freliminary -- Subject to Correction

April, 1937

Contribution from the
Giannini Foundation of Agricultural Economies
Mimeographed Report No. 53



Progress Report No. 24

Seasonal Labor Needs for California Crops Mcrcod County

Scope of Presentation -- The following considerations govern the presentation of this progress report:

- 1. The data are confined to the area indicated above.
- 2. The data are confined solely to crops, livestock needs being ignored.
- 3. The findings apply only to occasional or seasonal labor requirements as distinguished from labor contributed by farm operators and by workers employed on a year-round or regular basis of employment.
- 4. Attention is concentrated upon workers required for hand tasks -- planting, thinning, weeding, hooing, and harvesting -- without including teamsters, tractor drivers, irrigators, and shed packers of vegetables or fruits.
- 5. The presentation includes the so-called migratory, transient, or roving workers which comprise an important source of help needed in connection with certain tasks and at "peak" times which seasonally arise in connection with many field, truck, and fruit crops commercially produced in California.
- 6. This report is confined to California's need for seasonal agricultural workers because of the more pressing problems liable to arise in connection therewith. A later study is planned which will deal with other kinds of labor involved in the production of California's many crops.

Crops, Acreages, and Production -- The basis used in calculating occasional or seasonal need for labor, in addition to that furnished by farm operators and regularly employed workers, appears as table 1. Due to lack of assembled data, this table has been compiled from various sources, and is considered the best available information upon which to base estimates of labor needs.

TABLE 1

Basis for Calculating Seasonal Labor Requirements

Morced County

Crops	Acreage	Production
Field crops:*		
Alfalfa	57,614	202,598 tons
Boans		95,191 bushels
Cotton	10,300	8,618 bales t
Garlict	600	
Grain barley	71,127	1,219,764 bushols
oats		82,987 bushols
rye		7,881 bushols
wheat	22,636	374,514 bushels
Hay, other than alfalfa 80 per		
cont grain hay	24,644	35,635 tons
Onions intermediate crop	2809	Avorage 125 cwt. per acre

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Table 1 continued. 2.					
Crops	Acroago	Production			
Rice Sorghums for grain "gyp" corn	3,095	197,000 bushels			
and milo, etc.	3,109	92,585 bushels			
Sweet potatoes	4,361	349,499 bushols			
Vegetables:					
Boans fall #	50				
Cantaloupes	700	Average 150 crates per acre			
Carrots spring fall and winter	300)	Arronomo 250 anotas non ann			
Lottuce fall#	100)	Avorage 350 crates per acre			
Poas spring #	50				
fall	1,200	Average 75 hampers per acro			
Peppers #	50				
Tomatoes canning	860	Average 9 tons per acre			
summor, 600 acres)	-				
fall, 300 acres) Watermolons	900	Average 15 tons per acre			
WCCCI MOIOIS	1,500	Average 10 tons per acre			
Fruit and nut crops: #					
Almonds	2,841	800 tons			
Applos +	19				
Apricots	960	12,000 tons (fresh weight) of which			
Cherries #	11	[1,900 tons wore dried			
Figs Calimyrna - 3,491 acres)	14	(7 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Adriatic - 2,000 acres)		(3,375 tons Kadota (fresh weight) 675 tons Kadota (dry weight) dried			
Kadota - 2,250 acres)	9,341	7,000 tons dry weight dried, other			
Mission - 1,600 acros)		varieties			
Grapes raisin	9,420)	12,000 tons shippod			
table	3,596	40,000 tons raisins (dry weight)			
Wino Nectarines #	3,880	40,000 tons to wineries, etc.			
Olivos	80	(60 +			
0.2.700	85	[68 tons for canning) [18 tons not for canning) 86 tons**			
Peaches clingstone	3,015	13,150 tons cannod; 110 tons shipped;			
	,,,,,	3,800 tons (fresh weight) dried			
froestone	2,585	3,400 tons cannod; 3,725 tons shipped;			
		7,200 tons (fresh weight) dried			
Poars †	16				
Plums Prunes #	118	200 tons			
Walnuts	144	200 tons (all dried)			
	1,110	830,000 pounds ++			

^{*} Data from U. S. Consus, 1935, for crop year 1934, except where noted.

[†] Data from California Cooperative Crop Reporting Sorvice. Final California Cotton Report for the 1935 Crop. Sacramento, May 26, 1936. 1p.

^{*} Need for seasonal labor on these crops inconsequential, and hence ignored.

Acreage of vegetable crops is from Foderal-State Crop Reporting Service. California -- acreage of specified vegetable crops by counties. 1936, p.7.

Table continued on next page.

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^{*} Dote from W. S. Cennus, 1986, for erop your 1984, except where metad.

[|] Duch from Collfornia Cooperative Crop Reporting Service. Final California Cotton Report for the 1985 Crop. Sacramente, iny 25, 1985. 1p.

^{*} Mood for socional labor on these grope inconsequential, and house ignored,

California -- normego of appoiltion works able erops by counties. 1958, p. vi

Commissioner, unless noted, and represents bearing acreage only.

** Estimate by California Olive Association - 1935 crop.

Walnut Control Board estimate is 689,200 pounds merchantable. Culls are estimated to be 17 per cent of total crop - 1935.

Cperations Requiring Seasonal Labor and Times of Need. Farm operations requiring the use of seasonal labor for the various crops raised in Merced County are indicated in table 2. This tabulation does not include the employing of shed workers needed to wash, pack, and prepare various commodities for shipping and marketing.

TABLE 2
Operations Requiring Use of Seasonal Labor and Times of Needs by Crops
Merced County

			-	
Crop	Operation	Time of need	Fer cent of work done by seasonal help	
Field crops: Alfalfa 5 cut- tings average three- fourths ton each	Mowing Raking Shocking by hand Stacking in field or barn, with wagons and slings 80 per cent of crop	May 1-31 all of acreage June 1-30 all of acreage July 1-31 all of acreage August 1-31 all of acreage September 1-30 two-thirds of acreage October 1-15 one-third of acreage May 1-31 20 per cent of job June 1-30 20 per cent of	work done by	Output per man-day 8 acres 16 acres 6½ acres 3 tons
		September 1-30 20 per cent of job		

Commissioner unless noted, and represents bearing acrongs only-

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** Fertuate by Callfornia Olive Association - 1955 crop.

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aged &	100	Stacking in they I-31 20 per outs of job field or burn, line 1-30 20 per cent of with watch and job althus 20 July 1-31 20 per cent of	
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		September 1-30 12 por cent of job to dot 1-15 8 por cent of	
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Table 2	cont	inue	d.
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Table 2 co			-
Crop	Operation	Time of need Fer cent of work done by seasonal help	Output per
Alfalfa (cont.) Beans black-eye		October 1-31 10 per cent of job September 15-30 25 per cent of acreage October 1-31 50 per cent of acreage November 1-15 25 per cent	2 acres
	Threshing by portable ma-	of acreage September 15-30 25 per cent of acreage October 1-31 50 per cent of acreage November 1-15 25 per cent of acreage	3 acres (in 8 hours)
rieties (approx-	Hoeing twice Irrigating	July 50 per cent of job August 50 per cent of job April all of acreage once	Total of 3.5 hours per acre
imately 1,000 acres, mostly on west side)	average 4 times	June 15-30 75 per cent of acreage July 1-31 all of acreage once, half of acreage twice August 1-10 75 per cent of of acreage	4 acres (in 12 hours)
Sido	Harvesting with pickup combine	September 15-30 30 per cent of acreage October 1-31 60 per cent of acreage November 1-15 10 per cent of acreage	6 acres
Cotton	Chopping	April 25-30 10 per cent of acreage May 1-31 45 per cent of acreage June 1-30 45 per cent of acreage	2.5 acres
	Picking	October 1-31 30 per cent of crop November 1-30 30 per cent of crop December 1-31 12 per cent of crop	300 pounds seed cot- ton
		January 1-31 11 per cent of crop February 1-28 10 per cent of crop March 1-15 7 per cent of crop	200 pounds seed cot- ton
Grain barley, oats, ryo, and wheat	combine	Juno 20-30 15 per cent of crop July 1-31 50 per cent of crop August 1-31 35 per cent of crop	8 acres

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Crop	Operation	Time of need	work done by seasonal help	Output per man-day
Onions	Wooding	February 15-28 20 per cent of job March 1-31 40 per cent of job April 1-30 40 per cent of job	100	Total of 86 hours per acro (9-hour days)
	Harvesting pulling, cut- ting tops and roots, and sacking	June 1-30 90 per cent of job July 1-31 10 per cent of job] 100	35 cwt.
Rice	Swathing with push hoader Throshing with	October 1-31 60 per cent of acreage November 1-20 40 per cent of acreage October 1-31 50 per cent of	50	15 acres
	pickup combine	acreage November 1-30 50 per cent of acreage	40	4 acres
Milo and grain sorghums	Cutting by hand 50 per cent of acreage	September 15-30 20 per cent of job Octobor 1-31 75 per cent of job November 1-15 5 per cent of job	66	0.75 acre
	Threshing with stationary thresher 50 per cent of crop	October 1-31 60 por cent of job November 1-30 40 por cent of job	25	50 sacks
Sweet po-	Threshing with combine 50 per cent of acreage Planting	October 1-31 75 per cent of job November 1-15 25 per cent of job April 24-30 5 per cent of	50	5 acros
tatoes		acreage May 1-31 90 per cent of acreage June 1-10 5 per cent of	33	O.6 acre
Vegetable and truck	Harvesting picking up and piling	acreage October 1-31 50 per cent of crop November 1-30 50 per cent of crop	50	0.15 acre
crops: Canta- loupes	Hoeing and thin- ning 2 or 3 times	April 15-30 one-third of job May 1-31 two-thirds of job	} 50	Total of 1 man-day per acre

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	Crop	Operation	Time of need	Per cent of work done by seasonal help	Output per man-day
	Canta- loupes (cont.)	Picking canta- loupes 60 per cent of cantaloupe and honeydew crop	July 10-31 40 per cent of crop August 1-31 60 per cent of crop	100	25 crates (of 68 pounds)
		Packing canta- loupes 75 per cent on farms	July 10-31 40 per cent of crop August 1-31 60 per cent of crop	100	150 crates
		Picking honey- dews 40 per cent of total cantaloupe and honeydow crop	August 1-31 85 per cent of crop September 1-15 15 per cent of crop	100	3½ tons
	Carrots	Woeding twice	spring job March 1-31 one-third of spring job April 1-30 one-third of spring job	100	Total of 60 hours per acre
			August 20-31 20 per cent of fall job September 1-30 60 per cent of fall job October 1-10 20 per cent of fall job	100	Total of 45 hours per acre
		Bunching	October 15-31 5 per cent of job November 1-30 10 per cent of job December 1-31 10 per cent of job	100	12 packed crates
			April 20-30 15 por cent of job May 1-31 20 per cent of job June 1-25 40 por cent of job	100	15 packed crates
	Peas fall	Picking (in years of mild weather)	November 1-30 63 per cent of crop December 1-31 22 per cent of crop January 1-10 15 per cent of	100	9 hampers
	Tomatoes can- ning	beds 1,200 plants per acre plus 20 per cent for re-	crop March 1-31 all of job	80	4,000 plants
		plants Planting in field	March 15-31 50 per cent of job April 1-15 50 per cent of job	100	0.75 acro
4			Table	continued on	next page.

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Table 2 co	MULINUED.			7.
Crop	Operation	Time of need	Por cent of work done by seasonal help	Output per man-day
Tomatoes (cont.)	Hoeing Ficking	April 1-30 40 por cont of job May 1-31 60 per cont of job July 15-31 10 per cent of job	} 100	3 acres
		August 1-31 30 per cent of job September 1-30 35 per cent of job October 1-31 25 per cent of	100	1,500 pounds
shipping or mar- ket 75 per cent on stakes	All operations until picking	job March 1-31 April 1-30 May 1-31 June 1-15	10	l man to cach laction acres continuously
SCAROS	Ficking for shipping	June 15-30 12 per cent of job July 1-31 76 per cent of job August 1-31 12 per cent of job	95	50 lugs of 25 pounds (1,250 pounds)
Water- melons	Hoeing and thin- ning	April 20-30 50 per cent of job May 1-10 50 per cent of job	90	1 acre
Fruit and	Picking	July 10-31 40 per cent of crop August 1-31 60 per cent of crop	95	10 tons (in 5 or 6 hours)
nut crops: Almonds	Spraying	November 15-30 25 per cent of acreage December 1-15 25 per cent of acreage February 1-28 50 per cent of acreage) 66	l acro
	Knocking	August 15-31 25 per cent of crop September 1-30 70 per cent of crop October 1-7 5 per cent of	75	300 pounds
	Hulling	crop August 15-31 25 per cent of crop September 1-30 70 per cent of crop October 1-7 5 per cent of crop	} 75	400 pounds

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Crop	Operation	Time of need	Per cont of work done by seasonal help	Output por man-day
Apricots	Pruning 50 , por cont of acroago	October 1-31 one-third of job November 1-30 one-third of job Docomber 1-31 one-third of job	66	0.25 acro
	Thinning 25 per cent of acreage*	April 15-30 50 per cent of job May 1-15 50 per cent of job	} 100	0.2 acro
	Picking	June 15-30 50 per cent of crop July 1-15 50 per cent of crop	} 100	1,200 pounds
	Cutting for dry-] 100	750 pounds
-	Other dry-yard work	June 15-30 40 per cent of job July 1-21 60 per cent of job	90	ll man- hours per fresh ten
Figs	Pruning Kadota varioty	December 1-31 25 per cent of acreage January 1-31 25 per cent of acreage February 1-28 25 per cent of acreage March 1-31 25 per cent of	50	0.3 acro (=27 trees)
	Caprifying Calimyrna va- rioty only	acroage June 1-30 all of job	100	1 man-day
		August 10-31 15 por cont of crop Soptombor 1-30 50 por cont of crop Octobor 1-31 30 por cont of crop November 1-8 5 por cont of crop		400 pounds
	Picking up Calimyrna, Mission, and Adriatic	August 15-31 25 per cent of crop September 1-30 50 per cent of crop October 1-15 25 per cent of	100	900 pounds
	Drying, sorting, fumigating, otc.	crop August 15-31 10 por cent of job Soptember 1-30 40 per cent of job October 1-31 40 per cent of job November 1-15 10 per cent of job	95	q

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1 1 25	Continued		For cont of	9.
Crop	Operation	Time of need	Fer cent of work done by seasonal help	Output per man-day
Grapes	Pruning Thompson varie- ty, comprises practically all raisin grapes	January 1-31 30 per cent of	75	0.3 acre
	Pruning other varieties	December 1-31 10 per cent of acreage January 1-31 30 per cent of acreage February 1-28 40 per cent of acreage March 1-31 20 per cent of acreage	75	l acre
	Wrapping and tying Thompsons only	Docember 15-31 5 per cent of acreage January 1-31 30 per cent of acreage February 1-28 40 per cent of acreage March 1-31 25 per cent of acreage	75	3 acres
	Picking for dry- ing natural raisins 10 per cent of Thompson crop	September 1-15 all of job	100	250 trays (of 22 pounds each) fresh weight
	Turning trays	September 10-30 all of job	, 90	1,500 trays of about $5\frac{1}{2}$ pounds raisins
	Rolling trays	September 20-30 50 per cent of job October 1-10 50 per cent of job	80	1,500 trays
	Boxing and haul- ing in raisins	October 1-31 all of job	75	5,000 pounds dry weight
	ories in-	Soptembor 15-30 one-third of job Octobor 1-31 two-thirds of job	} 100	1.5 tons
		Table		

Table continued on next page.

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Crop	Operation	Time of need	Per cent of work done by seasonal help	Output per
Grapes (cont.)	Ficking for shipping all varieties ¶	August 10-31 10 por cent of job September 1-30 33 por cent of job October 1-31 54 por cent of job November 1-20 3 per cent of	100	1,500 pounds
Peaches	Pruning free- stones	job December 1-31 50 por cent of acreage January 1-31 50 por cent of acreage	} 66	0.25 acre
	Pruning cling- stones	Decembor 1-31 50 per cent of acreage January 1-31 50 per cent of acreage	} 100	0.25 acre
	Spraying Thinning*	November 15-30 25 per cent of acreage December 1-15 25 per cent of acreage February 1-28 50 per cent of acreage May 15-31 50 per cent of	66	l acro
	***************************************	acreage June 1-15 50 per cent of acreage	100	0.33 acre
	Picking for can- ning includ- ing sorting Picking for	August 15-31 80 per cent of job September 1-15 20 per cent of job July 1-31 38 per cent of	100	3,000 pounds
	shipping	job August 1-31 62 per cent of job	100	1,500 pounds
	ing	August 1-31 90 per cent of job September 1-15 10 per cent of job] 100	2,000 pounds
	ing	August 1-31 90 per cent of job Soptember 1-15 10 per cent of job	90	1,500 pounds
	work	August 1-31 75 per cent of job September 1-30 25 per cent of job	90	ll man- hours per fresh ton
Plums		June 1-30 25 per cent of crop July 1-31 33 per cent of crop August 1-31 42 per cent of crop	100	750 pounds (25 cratos)

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Crop	Oporation		Fer cent of work done by seasonal help	also do
Walnuts	picking up, and	September 1-30 40 per cent of crop October 1-31 60 per cent of crop	300	225 pounds

- * Thinning varies greatly in amount, and is not always done. Probably is necessary about four years out of five on peaches, and two years out of five on apricots.
- † From Christie, A. W. and L. C. Barnard. The principles and practice of sun-drying fruit. California Agr. Exp. Sta. Bul. 388:40-60. 1925.
- * Kadota figs are picked fresh for canning, the off grades being sorted out and used for drying. Orchards are picked over once each week or 10 days during the season, and about 3 men per acre are required at the peak of harvest.
 - f Drying, sorting, fumigating, etc. of figs are estimated as follows:
 - 23 man-hours per dry ton on Adriatic and Mission variety
 - 27 man-hours per dry ton on Kadota variety
 - 50 man-hours per dry ton on Calimyrna variety (10 hour days)

A Table varieties are mostly packed in sheds in this county, and field labor in picking them is about the same as for wine varieties.

Probably over 50 per cent of walnut crop is hulled by machines.

Findings of Seasonal Labor Nocds .-- Details and summaries of seasonal labor requirements of Merced County agriculture are presented as table 3. The "size of task" are figures drawn from table 1, in terms of either acreage or output in tons, crates, boxes, or whatever unit is commonly used. The "output per man-day" is an average figure for the entire acreage or output figured in crates, hampers, boxes, or other units as indicated in the table. If the work is of a nature that requires a crew, different members of which perform different tasks, then the average shown is per man based on the entire crew. Longth of day is 9 hours, November to February; 10 hours, March to October, unless otherwise stated. Wide variations in output occur between farm and farm, field and field, and season and season, because of differences in soil types, climatic conditions, woods, yields, and other factors influencing the amount of work that a laborer can perform in a given day. Moreover, the basis of output is a mature, experienced male worker without reference to use of women, childron, and more or less inexperienced help that is sometimes used in connection with certain of the tasks requiring use of scasonal workers. The column headed "available days" reflects (a) limitations set from the period within which the work must be performed because of the nature of the task, such as transplanting, thinning, weeding, and cutting, and (b) available days as determined by weather conditions, inclement weather reducing the number of days when a required task can be performed. The "required number of individuals" is given in terms of workers as noted above in connection with "output per man-day."

It is probable that the estimated number of workers required, as recorded in table 3, will often be too low, for the reason that "peaks" frequently occur, during which an unusually large proportion of the job is done in a very short period. This

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would naturally require a much greater number of workers than when the work is spread over a longer period, even though the total amount of labor (in man-days) remains the same.

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TABLE 3
Seasonal Labor Needs -- Merced County -- by Months and Tasks

			Output per			Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
January	Cotton: Picking	1,422,000 pounds +	200 pounds	7,110	20	356
o and and	Peas: Picking	13,500 hampers	9 hampers	1,500	7	215 (from 1-10)
	Figs Kadota: Pruning	281 acres #	0.3 acre	937	20	47
	Grapes: Pruning Thompsons	2,120 acres #	0.3 acre	7,067	20	354
	Pruning other varieties	1,680 acres +	1.0 acre	1,680	20	84
	Wrapping and tying Thompsons	2,120 acres #	3.0 acre	707	20	36
	Peaches: Pruning freestones	853 acres#	0.25 acre	3,412	20	171
	Pruning clingstones	1,507 acres	0.25 acre	6.028	20	302
				28,441	20	1,423 man-months 4
February	Cotton: Picking	1,293,000 pounds †	200 pounds	6,465	24	270
	Onions: Weeding	280 acres	9	535	12	45 (from 15-28)
	Carrots: Weeding	300 acres		600	24	25
	Almonds: Spraying	937 acres #	1.0 acre	937	24	40
	Figs Kadota: Pruning	281 acres #	0.3 acre	937	24	40
	Grapes: Pruning Thompsons	2,826 acres #	0.3 acre	9,420	24	393
	Pruning other varieties	2,240 acres #	1.0 acre	2,240	24	94
	Wrapping and tying Thompsons	2,826 acres #	3.0 acres	942	24	40
	Peaches: Spraying	1.848 acres #	1.0 acre	1,848	24	77
				23,924	24	997 man-months 4
March	Cotton: Picking	904,500 pounds †	200 pounds	4,523	11	412 (from 1-15)
	Onions: Weeding	280 acres	97	964	23	42
	Carrots: Weeding	300 acres	11	600	23	27
	Tomatoes canning: Transplanting					
	to beds	990,720 plants #	4,000 plants	248	23	11
	Planting in field	430 acres	0.75 acre	574	12	48 (from 15-31)
	shipping or market: All operations					
	until picking	90 acres +	**	1,380	23	60
	Figs Kadota: Pruning	282 acres f	0.3 acre	940	23	41
	Calimyrna: Caprifying	3,491 acres #	11	3,491	23	152
	Grapes: Pruning Thompsons	1,413 acres #	0.3 acre	4,710	23	205
	Pruning other varieties	1,120 acres #	1.0 acre	1,120	23	49

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Table	3	conti	nued.

	continued.		Output per			Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
March	Grapes (cont.)					
(cont.)	Wrapping and tying Thompsons	1,766 acres +	3.0 acres	589	23	26
(cont.)	wrapping and cying mompsons	1,700 401657	0.0 00105	19,139	23	833 man-months
April	Beans other than black-eye:					
	Irrigating	800 acres #	4 acres ++	200	24	9
	Cotton: Chopping	1,030 acres	2.5 acres	412	í,	103 (from 25-30
	Onions: Weeding	280 acres	I II	964	24	41
	Sweet potatoes: Planting	72 acres #	0.6 acre	120	5	24 (from 24-30
	Cantaloupes: Hoeing and thinning	350 acres #	र्व व	117	12	10 (from 15-30)
	Carrots: Weeding	300 acres	11	600	24	25
	Bunching	21,000 crates	15 crates	1,400	8	175 (from 20-30)
	Tomatoes canning: Planting in					
	field	430 acres	0.75 acre	574	12	48 (from 1-15)
	Hoeing	344 acres	3.0 acres	115	24	5
	shipping or market: All operations					
	until picking	90 acres #	**	1,440	24	60
	Watermelons: Hoeing and thinning	675 acres #	1.0 acre	675	8	85 (from 20-30)
	Apricots: Thinning	120 acres	0.2 acre	600	12	50 (from 15-30
				7,217	24	301 man-months
May	Alfalfa: Mowing	38,025 acres #	8.0 acres	4,754	26	183
	Raking	38,025 acres #	16.0 acres	2,377	26	92
	Shocking	38,025 acres #	6.5 acres	5,850	26	225
	Stacking	21,394 tons #	3.0 tons	7,132	26	275
	Baling	4,052 tons	6.0 tons	676	13	52 (from 15-31)
	Cotton: Chopping	4,635 acres	2.5 acres	1,854	26	72
	Sweet potatoes: Planting	1.296 acres#	0.6 acre	2,160	26	84
	Cantaloupes: Hoeing and thinning	350 acres#	66	233	26	9
	Carrots: Bunching	28,000 crates	15 crates	1,867	26	72
	Tomatoes canning: Hoeing	516 acres	3.0 acres	172	26	7
	shipping or market: All operations					
	until picking	90 acres#	**	1,560	26	60
	Watermelons: Hoeing and thinning	675 acres †	1.0 acre	675	8	85 (from 1-10)
	Apricots: Thinning	120 acres	0.2 acre	600	13	47 (from 1-15)
	Peaches: Thinning	2,800 acres	0.33 acre	8,485	13	653 (from 15-31
				38,395	26	1,477 man-months

Table continued on next page.

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Table 3 continued.

Table 3	continued.					
			Output per		I .	Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
June	Alfalfa: Mowing	38,025 acres +	8.0 acres	4,754	26	183
	Raking	38,025 acres #	16.0 acres	2,377	26	92
	Shocking	38,025 acres +	6.5 acres	5,850	26	225
	Stacking	21,394 tons+	3.0 tons	7,132	26	275
	Baling	8,104 tons	6.0 tons	1,351	26	52
	Beans other than black-eye: Irri-					
	gating	600 acrest	4.0 acres 77	150	13	12 (from 15-30)
	Cotton: Chopping	4,635 acres	2.5 acres	1,854	26	72
	Grain: Threshing with combine	11,907 acres #	8.0 acres	1,489	9	166 (from 20-30)
	Onions: Harvesting	31,500 cwt.	35 cwt.	900	26	35
	Sweet potatoes: Planting	72 acres #	0.6 acre	120	ő	15 (from 1-10)
	Carrots: Bunching	56,000 crates	15 crates	3,734	21	178 (from 1-25)
	Tomatoes shipping or market: All					
	operations until picking	90 acres #	**	780	13	60 (from 1-15)
	Picking	1,539 tons #	1,250 pounds	2,463	13	190 (from 15-30)
	Apricots: Picking	1,000 tons	1,200 pounds	1,667	13	129 (from 15-30)
	Cutting for drying	950 tons	750 pounds	2,534	13	195 (from 15-30)
	Other dry-yard labor	684 tons#	PP	753	13	58 (from 15-30)
	Peaches: Thinning	2,800 acres	0.33 acre	8,485	13	653 (from 1-15)
	Plums: Picking	50 tons	750 pounds	134	26	6
				46,527	26	1,790 man-months 6
July	Alfalfa: Mowing	38,025 acres #	8.0 acres	4,754	26	183
	Raking	38,025 acres #	16.0 acres	2,377	26	92
	Shocking	38,025 acres#	6.5 acres	5,850	26	225
	Stacking	21,394 tons #	3.0 tons	7,132	26	275
	Baling	8,104 tons	6.0 tons	1,351	26	52
	Beans other than black-eye: Hoe-					
	ing	1,000 acres	4 #	175	26	7
	Irrigating	1,600 acres T	4.0 acres #	400	26	16
	Grain: Threshing with combine	39,690 acres +	8.0 acres	4,962	26	191
	Onions: Harvesting	3,500 cwt.	35 cwt.	100	26	4
	Cantaloupes: Picking	25,200 crates	25 crates	1,008	17	60 (from 10-31)
	Packing	18,900 crates	150 crates	126	17	8 (from 10-31)
	Tomatoes canning: Picking	774 tons	1,500 pounds	1,032	13	80 (from 15-31)
	shipping or market: Picking	9,747 tons #	1,250 pounds	15,596	26	600
	amphano or mornor, a touting	0,147 001107	2,500 Pounds	20,000		
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Table 3	continued.					
			Output per	1 -	T .	Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
		+				
July	Watermelons: Picking	5,700 tons #	10 tons &	570	17	34 (from 10-31)
(cont.)	Apricots: Picking	1,000 tons	1,200 pounds	1,667	13	129 (from 1-15)
	Cutting for drying	950 tons	750 pounds	2,534	13	195 (from 1-15)
	Other dry-yard labor	1,026 tons #	99	1,129	17	67 (from 1-21)
	Peaches: Picking for shipping	1,457 tons	1,500 pounds	1,943	26	75
	Plums: Picking	66 tons	750 pounds	176	26	7
				52,882	26	2,034 man-months o
August	Alfalfa: Mowing	38,025 acres +	8.0 acres	4,754	26	183
	Raking	38,025 acres #	16.0 acres	2,377	26	92
	Shocking	38,025 acres#	6.5 acres	5,850	26	225
	Stacking	21,394 tons#	3.0 tons	7,132	26	275
	Baling	8,104 tons	6.0 tons	1,351	26	52
	Beans other than black-eye: Hoe-					
	ing	1,000 acres	11 11	175	26	7
	Irrigating	600 acres #	4.0 acres ##	150	8	19 (from 1-10)
	Grain: Threshing with combine	27,783 acres +	8.0 acres	3,473	26	134
	Cantaloupes: Picking	37,800 crates	25 crates	1,512	26	59
	Packing	28,350 crates	150 crates	189	26	8
	Melons: Picking honeydews	35,700 crates b	3.5 tons	10,200	26	393
	Carrots: Weeding	100 acres	S.	90	9	10 (from 20-31)
	Tomatoes canning: Picking	2,322 tons	1,500 pounds	3,096	26	120
	shipping or canning: Picking	1,539 tons†	1,250 pounds	2,463	26	95
	Watermelons: Picking	8,550 tons+	10 tons &	855	26	33
	Almonds: Knocking	150 tons #	300 pounds	1,000	13	77 (from 15-31)
	Hulling	150 tons#	400 pounds	750	13	58 (from 15-31)
1	Figs: Picking Kadotas	810 tons	400 pounds	4,050	17	239 (from 10-31)
	Picking up Calimyrnas, Missions,					
	and Adriatics	1,750 tons	900 pounds	3,889	13	300 (from 15-31)
	Drying, sorting, fumigating, etc.	729 tons #	d	2,552	13	197 (from 15-31)
	Grapes: Picking for shipping	1,200 tons	1,500 pounds	1,600	17	95 (from 10-31)
	Peaches: Picking for canning	13,240 tons	3,000 pounds	8,827	13	679 (from 15-31)
	Picking for shipping	2,378 tons	1,500 pounds	3,171	26	122
	Picking for drying	9,900 tons	2,000 pounds	9,900	26	381
	Cutting for drying	8,910 tons*	1,500 pounds	11,880	26	457
	Other dry-yard labor	7,425 tons #	99	8,539	26	329
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Table continued on next page.

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Table 5	continued.		Tair	In	0 17 17	In
Month	Crop and task	Size of task	Output per man-day	man-days	•	Required number of workers*
MOHUH	Crop and task	Size of task	man-day	man-qays	days	workers.
August	Plums: Picking	84 tons	750 pounds	224	26	9
(cont.)				100,049	26	3,849 man-months ¢
September	Alfalfa: Mowing	25,325 acres #	8.0 acres	3,166	26	122
	Raking	25,325 acres #	16.0 acres	1,583	26	61
	Shocking	25,325 acres*	6.5 acres	3,897	26	150
	Stacking	12,836 tons#	3.0 tons	4,279	26	165
	Baling	8,104 tons	6.0 tons	1,351	26	52
	Beans black-eye: Shocking	320 acres #	2.0 acres	160	13	13 (from 15-30
	Threshing	1,280 acres#	3.0 acres	427	13	33 (from 15-30
	other than black-eye: Harvesting					
	with combine	150 acres +	6.0 acres	25	13	2 (from 15-30
	Sorghums for grain: Cutting by hand	205 acres #	0.75 acre	274	13	22 (from 15-30
	Melons: Picking honeydews	6,300 crates b	3.5 tons	35	13	3 (from 1-15)
	Carrots: Weeding	100 acres	0	270	26	11
	Tomatoes canning: Picking	2,709 tons	1,500 pounds	3,612	26	139
	Almonds: Knocking	420 tons #	300 pounds	2,800	26	108
	Hulling	420 tons #	400 pounds	2,100	26	81
	Figs: Picking Kadotas	2,700 tons	400 pounds	13,500	26	520
	Picking up Calimyrnas, Missions,					
	and Adriatics	3,500 tons	900 pounds	7,778	26	300
	Drying, sorting, fumigating, etc.	2,916 tons #	d	10,206	26	393
	Grapes: Picking for raisins	160,000 tons	5,500 pounds	58,182	13	4,476 (from 1-15)
	Turning trays	36,000 tons #	1,500 trays &	8,728	17	514 (from 10-30
	Rolling trays	16,000 tons #	1,500 trays &	3,879	8	485 (from 20-30
	Picking for wineries	13,333 tons	1.5 tons	8,889	13	684 (from 15-30
	Picking for shipping	3,960 tons	1,500 pounds	5,280	26	204
	Peaches: Picking for canning	3,310 tons	3,000 pounds	2,207	13	170 (from 1-15)
	Picking for drying	1,100 tons	2,000 pounds	1,100	13	85 (from 1-15)
	Cutting for drying	990 tons 7	1,500 pounds	1,320	13	102 (from 1-15)
	Other dry-yard labor	2,475 tons 7	99	2,847	26	110
	Walnuts: Shaking off, picking up,	2,210 00115	, ,	2,041	250	110
	and hulling	332,000 pounds	225 pounds	1,476	26	57
		- Caroo poundo	Doo poundo	149,371	26	5,746 man-months 9

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Table 3	continued.					
			Output per	-		Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
		4				202 (2 2 25)
October	Alfalfa: Mowing	12,700 acres 7	8.0 acres	1,588	13	123 (from 1-15)
	Raking	12,700 acres#	16.0 acres	794	13	62 (from 1-15)
	Shocking	12,700 acres #	6.5 acres	1,954	13	151 (from 1-15)
	Stacking	8,558 tons#	3.0 tons	2,853	13	220 (from 1-15)
	Baling	4,052 tons	6.0 tons	676	13	52 (from 1-15)
	Beans black-eye: Shocking	640 acres #	2.0 acres	320	26	13
	Threshing	2,560 acres #	3.0 acres	854	26	33
	other than black-eye: Harvesting					
	with combine	300 acres +	6.0 acres	50	26	2
	Cotton: Picking	3,489,750 pounds T	300 pounds	11,633	26	448
	Rice: Swathing with push header	930 acres #	15.0 acres	62	26	3
	Threshing with pickup combine	620 acres F	4.0 acres	155	26	6
	Sorghums for grain: Cutting by hand	770 acres #	0.75 acre	1,027	26	40
	Threshing	6,945 bushels #	100 bushels	70	26	3
	Threshing with combine	584 acres +	5.0 acres	117	26	5
	Sweet potatoes: Harvesting	1,090 acres #	0.15 acre	7,267	26	280
	Carrots: Weeding	100 acres	C/	90	8	12 (from 1-10)
	Bunching	7,000 crates	12 crates	584	13	45 (from 15-31)
	Tomatoes canning: Picking	1,935 tons	1,500 pounds	2,580	26	100
	Almonds: Knocking	30 tons +	300 pounds	200	6	34 (from 1-7)
	Hulling	30 tons #	400 pounds	150	6	25 (from 1-7)
	Apricots: Pruning	106 acres +	0.25 acre	424	26	17
	Figs: Picking Kadotas	1,620 tons	400 pounds	8,100	26	312
	Picking up Calimyrnas, Missions,					
	and Adriatics	1,750 tons	900 pounds	3,889	13	300 (from 1-15)
	Drying, sorting, fumigating, etc.	2,916 tons #	d	10,206	26	393
	Grapes: Rolling trays	16,000 tons #	1,500 trays &	3,879	8	485 (from 1-10)
	Boxing and hauling in	30,000 tons #	5,000 pounds	12,000	26	462
	Picking for wineries	26,667 tons	1.5 tons	17,778	26	684
	Picking for shipping	6.480 tons	1,500 tons	8,640	26	333
	Walnuts: Shaking off, picking up,	, 100 10110				
	and hulling	498,000 pounds	225 pounds	2,214	26	86
		,000 855		100,154	26	3,853 man-months \$
November	Beans black-eye: Shocking	320 acres #	2.0 acres	160	12	14 (from 1-15)
	Threshing	1,280 acres#	3.0 acres	427	12	36 (from 1-15)
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1010	continued.		Output per	Required	Available	Required number of
Month	Crop and task	Size of task	man-day	man-days	days	workers*
ovember	Beans (cont.)					
(cont.)	other than black-eye: Harvesting	50	6.0 acres	0	12	1 (from 1-15)
	with combine	50 acres #	300 pounds	11,633	24	485
	Cotton: Picking	3,489,750 pounds T	15.0 acres	42	16	3 (from 1-20
	Rice: Swathing with push header	620 acres +		155	24	7
	Threshing with pickup combine	600 acres #	4.0 acres	68	12	6 (from 1-15
	Sorghums for grain: Cutting by hand	51 acres #	0.75 acre	47	24	0 (1101111-10
	Threshing	4,630 bushels F	100 bushels	39	12	4 (from 1-15
	Threshing with combine	194 acres +	5.0 acres		24	303
	Sweet potatoes: Harvesting	1,090 acres #	0.15 acre	7,267	24	49
	Carrots: Bunching	14,000 crates	12 crates	1,167	24	263
Al Ap Fi	Peas: Picking	56,700 hampers	9 hampers	6,300	12	40 (from 15-3
	Almonds: Spraying	469 acres #	1.0 acre	469	1	
	Apricots: Pruning	106 acres †	0.25 acre	424	24	18
	Figs: Picking Kadotas	270 tons	400 pounds	1,350	6	225 (from 1-8)
	Drying, sorting, fumigating, etc.	729 tons#	d'	2,552	12	213 (from 1-15
	Grapes: Picking for shipping	360 tons	1,500 pounds	480	16	30 (from 1-20
	Peaches: Spraying	924 acres #	1.0 acre	924	12	77 (from 15-3
				33,513	24	1.397 man-months
ecember	Cotton: Picking	1,552,000 pounds †	300 pounds	5,174	22	236
	Carrots: Bunching	14,000 crates	12 crates	1,167	22	54
	Peas: Picking	19,800 hampers	9 hampers	2,200	22	100
	Almonds: Spraying	469 acres #	1.0 acre	469	11	43 (from 1-15
	Apricots: Pruning	105 acres †	0.25 acre	420	22	20
	Figs Kadota: Pruning	281 acres *	0.3 acre	937	22	43
	Grapes: Pruning Thompsons	706 acres#	0.3 acre	2,354	22	107
	Pruning other varieties	560 acres +	1.0 acre	560	22	26
	Wrapping and tying Thompsons	353 acres =	3.0 acres	118	11	11 (from 15-3
	Peaches: Pruning freestones	853 acres#	0.25 acre	3,412	22	156
	Pruning clingstones	1,508 acres	0.25 acre	6,032	22	275
	Spraying	924 acres +	1.0 acre	924	11	84 (from 1-15
	Spraying	257 do103 1	2.0 00.0	23,767	22	1.081 man-months

^{*} On a monthly basis unless otherwise noted.

[†] Seed cotton -- For September, October, and November, it is estimated that it takes 1,350 pounds of seed cotton to Table continued on next page.

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Table 3 continued.

make a bale. After the frost -- that is, during December, January, February, and March -- this figure is estimated to be 1.500 pounds.

Portion of job done by seasonal workers.

It should be noted that this figure, rather than representing the required number of workers, represents the required man-months of seasonal labor, and is derived by dividing the total number of man-days by the total number of days available for work during the month.

9 Onion weeding is estimated to require a total of 86 man-hours per acre -- 20 per cent in February, and 40 per cent in each of March and April.

Il Weeding the spring crop of carrots requires a total of approximately 60 man-hours per acre -- one-third in each of the months, February, March, and April.

- ** Estimated to require one man continuously for each 12 acres.
- fl Caprifying requires one man-day per acre.

Rate of work for 12-hour day.

49 Hoeing and thinning cantaloupes require a total of one man-day per acre -- one-third in April, and two-thirds in May.

A ADry-yard labor, other than cutting, estimated to be as follows:

Apricots - 11 man-hours per fresh ton Peaches - 11.5 man-hours per fresh ton

- # Bean hoeing is estimated to require 3.5 man-hours per acre -- 50 per cent in July, and 50 per cent in August.
- a Rate of work for a 5 to 6-hour day.
- Crates of 38 pounds net weight.
- Weeding fall and winter carrots is estimated to require 45 man-hours per acre -- 20 per cent in August, 60 per cent in September, and 20 per cent in October.

Table continued on next page.

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Table 3 continued.

d It is estimated that it requires an average of 35 man-hours per dry ton to handle these figs, allowance being made for the variation in amounts of labor required for different varieties.

e Trays of about 52 pounds raisins, net weight.

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TABLE 4

Summary of Seasonal Labor Needs by Months
Merced County
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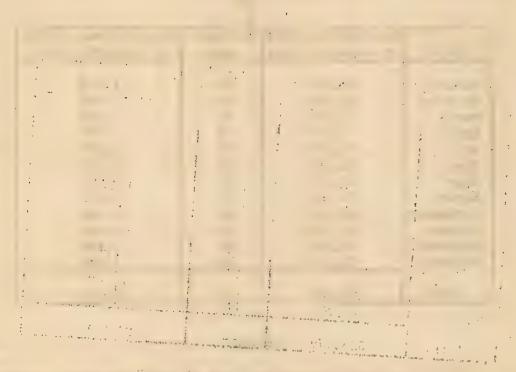
			Required man-months
Month	of seasonal labor	days	of seasonal labor
		•	
January	28,441	20	1,423
February	23,924	24	997
March	19,139	23	833
April	7,217	24	301
May	38,395	26	1,477
June	46,527	26	1,790
July	52,882	26	2,034
August	100,049	26	3,849
September	149,371	26	5,746
October	100,154	26	3,853
November	33,513	24	1,397
December	23,767	22	1,081
Total	623,379		24,781

Notes

Notes on Table 2.-- Data concerning "time of need" as shown in this table break down required seasonal labor into the period in which the work is performed in order to permit a subsequent determination of labor needs by months (table 3). Some operations are performed only to a limited extent with seasonal labor. For instance, only about 80 per cent of the labor in harvesting grain is done by seasonal workers. When a job extends over several different months, the proportionate amount for each month is shown.

The amount of work done each month is based on the cropping system followed during 1935. The allotting of amounts of work is based on findings concerning local farm practices, and required time to "make" a crop resulting from inquiry of producers, and records of carlot shipments, the latter proving helpful in fixing dates of planting and of subsequent tasks involved in producing certain crops. Proportionate amounts of output harvested each month were determined from data of local practices with respect to harvesting, and from carlot shipments of perishable products. Records of truck shipments were also used when available.

Notes on Table 3.-- Table 3 is the condensed summary of labor needs as worked out for Merced County as a result of findings pertinent to 1935. The data are presented by months with the tasks which were performed in each month indicated by both crop and task. The size of the job was calculated from the data appearing in table 1 (acreage and production) and table 2 (task, time of performance, and percentage of work pertinent to a given month). The output per man-day was calculated as indicated in the foreword presenting table 3. The number of required man-days is a result of dividing the size of task by output per man-day. The available days for the different tasks involve two variables. The first is the number of days when field work is possible because of favorable weather conditions. The basis for this column was determined from a study of the monthly weather charts of the United States Weather Bureau for the years 1933, 1934, and 1935. These data indicated available days per month as follows (based on a 26-day working month without allowance for holidays):



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Month	Available days	Length of work day	Month		Length of work day
January February March April May June	20 24 23 24 26 26	9 9 10 10 10 10 10	July August September October November December	26 26 26 26 24 22	10 10 10 10 9 9

Source of data: Based on precipitation records of the Los Banos station of the United States Weather Bureau for the years 1933, 1934, and 1935.

The second factor influencing the number of available days was the size of the job. If the output was only a few cars, then the number of days was limited to the time needed to get out those cars efficiently. If a field operation had to be performed in a period less than the number of available days in the month, then the specific number of days was noted. These restrictions are shown in parentheses. For example, in July, picking of apricots was limited to the first half of the month, picking watermelons to the last twenty days, etc.

The totals of table 3 show the total required man-days of needed seasonal labor, the available days for field work during the month, and the necessary number of men (as defined in the opening paragraph of table 3) required on a monthly basis to care for the tasks ordinarily performed by seasonal workers.

In an area such as Merced County, involving a variety of annual crops, the findings as set forth in this report are bound to fluctuate materially from year to year, because of the market outlook upon what and how much acreage is planted, and when it is planted; because of variable seasonal conditions affecting yields, time of performing operations, and available days; and because of harvesting operations on certain crops being speeded up to supply a good market, or retarded to avoid a poor one, resulting in marked variations in the need for harvest labor.

Source of date: Essed on proclitation records of the Lon-Eknos station of the Entred States Meather Bureau for the years 1955, 1954, and 1955.

The success factor influencing the number of available days was the rise of the job, if the output was only a farjoure, then the number of days was limited to the time number of days the those oses officiantly. As a field position had to be ported in a period less than the purply of available days in the month, then the service different of days and shorted. These mostrators of days and shorted to the sound in initiations are considered to the sound in initiations of days and shorted to the sound in the time month, country with respectively to a limited of the street of the month, country with the street and month, country with the street month, and the street month, and the street with the street month, and the street month, and the street month, and the street month is the street month.

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